Vineeth Reddy Vemula

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EXPERIENCE

Software Developer
Advanced Research Computing - Virginia Tech

May 2023 - Present
Blacksburg

- Developed interactive 3D websites using **React** and **X3D**, overcoming rendering performance and responsiveness challenges
- Collaborated with researchers in **software development** & visualization to handle complex computational tasks and data
- Improved efficiency by automating the data pre-processing pipeline using **Python** scripts, reducing processing time by **40%**
- Implemented solutions to automate iterative processing steps, ensuring **scalability** and efficiency in processing vast datasets

Senior Full Stack Software Engineer
Accenture

Oct 2021 - Dec 2022
Hyderabad

- Led the development of various features for **global roll-outs**, including the integration of new product offerings
- Engineered **serverless** solutions by leveraging **event-driven** architecture, integrating **Service Bus** and **Azure Functions**
- Increased code **test coverage** to over **80%** using **NUnit** and **Jasmine** Frameworks, improving overall **software quality**
- Served as primary point of contact for **P1 issues**, developing **standard operating procedures** for efficient operations
- Significantly **reduced incident reports** by over **50%** by identifying and **resolving recurring bugs** effectively
- Accelerated **technical solution** discussions, resolving **cross-team** dependencies through effective global team collaboration
- Created a Performance Monitoring Dashboard on Azure to track **traffic**, **peak usage**, and **KPIs**, leading to performance improvement sprints that enhanced **endpoints** by up to **150%** and overall **system performance**

Full Stack Software Engineer
Accenture

Dec 2020 - Oct 2021
Hyderabad

- Contributed to full-stack development of a web application using **Angular, .NET, SQL Server** and **Azure**
- Managed a comprehensive **database** on **Microsoft Dynamics CRM** and **PostgreSQL**, integrating legacy system data
- Facilitated multi-channel data flow using **automated batch jobs** for **data processing, data storage** and **data exports**
- Played a key role in **GDPR** compliance efforts, successfully avoiding potential fines of up to **2%** of annual company revenue
- Built data-driven **analytics dashboard**, enabling **real-time** visualization and in-depth analysis of **key business indices**
- Adhered to **Agile** methodology, **DevOps** principles, **Test-Driven** Development, **CI/CD** and Automation in daily practice

Research and Development Intern
Accord Power Digital Products

May 2020 - July 2020
Hyderabad

- Engineered a controller for an RO water purification system with TDS control, to help reduce water wastage significantly
- Collaborated with the engineering team to build the system, programmed **embedded code** in **C**, and conducted thorough **testing** of the **prototype**, ensuring **functionality**, **reliability**, and **quality assurance**

KEY PROJECTS

Codehort - Application to Form Groups for Collaborative Learning
Jan 2024 - May 2024

- Executed development of web platform with coding groups, personalized goals, leaderboards, and progress tracking features
- Utilized **React** for front-end development, **Java** for **RESTful APIs** and deployed database and application on **Azure**

Context Based LLM Chatbot
Mar 2024 - May 2024

- Developed **GPT-based** chatbot using **FAISS** for efficient indexing and **RAG** technique for contextually relevant responses
- Implemented frontend with **Vue** and backend using Python and **Flask**, enabling seamless communication with GPT model

TECHNICAL SKILLS

Languages: C, C++, C#, SQL, Java, TypeScript, JavaScript, Python, CSS, HTML
Frameworks and Libraries: .NET, Spring, Angular, React, Vue, Flask, Unity, JUnit, NUnit, Selenium, Cypress
Developer Tools: Visual Studio, Azure Cloud, GIT, Tableau, Observable, Paraview
Applications: Microsoft Dynamics CRM, Figma, WordPress
Certifications: Azure AZ-900

EDUCATION

Virginia Tech
Master of Engineering in Computer Science – GPA: 4

Jan 2023 - Dec 2024
College of Engineering

Osmania University
Bachelor of Engineering in Electronics and Communication – GPA: 3.5

Aug 2016 - Sep 2020
MVSR Engineering College